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APPLICATION NO.	FILING DATE	FIRST NAMED	INVENTOR	A	TTORNEY DOCKET NO.
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Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary Sexaminer			Application No.	Applicant(s)					
Examiner Lauren Q Wells 1619	•								
Lauren QWells 1519		Office Action Summary							
The MALING DATE of this communication appears on th cover sheet with the correspondence address − Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Edeticated from reply to smilled under the provisions of 3 CFR 1.18(e), in no evert, however, may a reply be timely filed or the provision of the reply to specified above it was than lithiny (30) stoys, a reply within the statutory entered apple and vill appears (6), MONTH's from the manifage date of the communication. Foliate to reply specified above it was than lithiny (30) stoys, a reply within the statutory entered apple and vill appears (6), MONTH's from the manifage date of this communication. Foliate to reply within the sact or extended period for reply will by ethabut, caused the application to become ABANCONEC (53 U.S.C. § 133), secret diperior to reply within the sact or extended period for reply will be the sact or extended period for reply will be the sact or extended period for reply will be the sact or extended period for reply will be the sact or extended period for reply will be the sact or extended period for reply will be the sact or extended period for reply will be the sact or extended period for reply will be the sact or extended period for reply will be the sact or extended period for reply will be the sact or extended period for reply will be the sact or extended period for reply will be the sact or extended period for reply will be the sact or extended period for reply will be the sact or extended period for reply will be sact or extended period for reply will be the sact or extended period for reply will be the sact or extended period for reply and the sact or extended period for reply will be the sact or extended period for reply and the sact or extend		•							
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THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 3 CPR 1.136(a). In or ovent, however, may a reply be limely filed after SIX (6) MONTES from the realing date of this communication. If NO period for reply is specified to the provision of 3 CPR 1.136(a). If NO period for reply is specified above, the maximum statulary prioried unlarge and will across (6) MONTES from the mailing date of this communication. Failure to reply veshible the said or extended perior for reply vell, by statute, cause the application to become ABANDONED (SEU S.C. § 133). Any respire cered by the Official set than three semilar date of this communication, even if timely filled, may reduce any Status 1) ② Responsive to communication(s) filled on 25 July 2001. 2a) ☐ This action is FINAL. 2b) ② This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ② Claim(s) 1.54 is/are pending in the application. 4a) Of the above claim(s) 1.11 and 25-54 is/are withdrawn from consideration. 5) ☐ Claim(s) 1.54 is/are rejected. 7) ☐ Claim(s) is/are allowed. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b ☐ objected to by the Examiner. Application Papers 9) ☐ The proposed drawings are required in reply to this Office action. 12) ☐ The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ Acknowledgment is made of a claim for domestic priority documents have been received in this National Stage application from the International Bureau (PCT Rul 1.17 2(a)) * See the attached deta	Period fo	r Reply							
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DETAILED ACTION

Claims 1-54 are pending. Claims 1-11 and 25-54 are withdrawn from consideration, as they are drawn to non-elected subject matter.

Election/Restrictions

Applicant's election without traverse of Group II in Paper No. 5 is acknowledged.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 12, 14, 17-20, 22 and 24 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

- (i) The phrase "incubating in a reaction comprising. . .AR-NOX" in claims 12, 17, 20 and 24 (lines 2-3) is vague and indefinite, as it is not clear how one incubates in a reaction and further how a reaction can comprise something.
- (ii) The phrase "positive control" in claim 14 (line 2) is vague and indefinite, as it is not clear what these phrase means.
- (iii) The phrase "capable of" in claim 17 (line 3) and claim 18 (line 1) is vague and indefinite, as it has been held that the recitation that an element is "capable of" performing a function is not a positive limitation but only requires the ability to so perform that function. It does not constitute a limitation in any patentable sense. *In re Hutchinson*, 69 USPQ 138.

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(iv) The phrases "test agent" and "test compound" in claims 12, 17, 20 and 24 (lines 3 and 7) are vague and indefinite, as these phrases are not defined by the specification and one of ordinary skill in the art would not be appraised of them.

(v) Claims 19 and 22 are vague and indefinite, as it is not clear what the detection of cytochrome c and ascorbate radical are being compared to.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 12-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Morre et al. (5,569,673) in view of Morre et al. (BioFactors 9).

Morre et al. teach a method for determining neoplasia in a mammalian host comprising detecting the presence of an NADH oxidase associated with neoplastic cells as compared to a different NADH oxidase associated with normal cells, wherein the detection is by means of an immunoassay. In a first assay is NADH oxidase and an NADH oxidase inhibitor, which discriminates between NADH oxidase from normal cells and NADH oxidase from neoplastic cells, wherein quinone-like structures are disclosed as inhibitors. The inhibition of NADH oxidase is then determined with an ascorbate free radical as a reactant, wherein the reduction of

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ascorbate free radical is measured at 265nm by a spectrophotometer in intact cells suspended in a buffer medium containing ascorbate. It is further disclosed that a) detection of NADH oxidase may be achieved by employing antibodies which may be conjugated with labels such as radioisotopes, enzymes, fluorescers, and chemiluminescers and b) in assaying for NADH oxidase activity one may measure the rate of disappearance of NADH, the appearance of NAD+, or the rate of appearance or disappearance of another reaction product or reactant. Morre et al. fail to teach screening within a cell, cytochrome c, superoxide dimutase, and a substrate undergoing disulfide-thiol interchange activity.

Morre et al. teach a multifunctional NADH oxidase with protein disulfide thiol interchange activity associated with the plasma membrane. It is disclosed that hyperactivity or interruption of the electron transfer by NADH oxidase from NADPH or hydroquinone to molecular oxygen or protein thiols can result in the production of superoxides. This was further tested by using cultured cells and UV light, which is used to induce superoxide generation, to perturbate electron flow. It was found that the production of superoxide resulted in the reduction of cytochrome c and that the UV induced increase in cytochrome c reduction was inhibited by superoxide dimutase, implicating superoxide as the source of reduction of cytochrome c. It is further disclosed that the superoxide dimutase inhibitable reduction of cytochrome c is assumed to be due to the cell surface NADH oxidase.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the invention of Morre et al. ('810) using the teachings of Morre et al. (BioFactors 9) and obtain a method for screening for agents that sequester AR-NOX comprising cytochrome c or ascorbate radical or NAD + or disulfide-thiol interchange activity

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as detections means and superoxide dismutase as a substrate capable of generating reactive oxygen species because a) both references teach NADH oxidase assays for determination of cellular activity; b) Morre et al. ('810) teach that inhibitors may vary as to structure in relation to the particular binding site target, therefore allowing a variety of compounds to act as detectors.

The claimed subject matter fails to patentably distinguish over the state of the art as represented by the cited references. Therefore, the claims are properly rejected under 35 U.S.C. § 103.

Prior Art

The prior art made of record and not specifically relied upon in any rejections cited above is either 1) considered cumulative to the prior art that was cited in a rejection or is 2) considered pertinent to the applicant's disclosure and shows the state of the art in its field but is not determined by the Examiner to read upon the invention currently being prosecuted in this application.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lauren Q Wells whose telephone number is (703) 305-1878. The examiner can normally be reached on M-F (7-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diana L Dudash can be reached on (703) 308-2328. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-4556 for regular communications and (703) 308-4556 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1234.

DAMERON L. JONES
DAMERON EXAMINER

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